

The Heterodyne

Newsletter of the West Valley Amateur Radio Association

February Meeting

HF Digital Modes
By Bill Fehring, W9KKN

Wednesday, February 14
Meeting Starts at 7pm

Meeting Location:
American Red Cross,
Silicon Valley Chapter
2731 N. First Street at Plumeria Dr
(southwest corner) in San Jose

| WVARA Repeaters (W6PIY) | | |
|-------------------------|-------------|----------|
| Band | Frequency | PL |
| 6 Meters | 52.580- MHz | 151.4 Hz |
| 2 Meters | 147.39+ MHz | 151.4 Hz |
| 1.25 Meters | 223.96- MHz | 156.7 Hz |
| 0.70 Meter | 441.35+ MHz | 88.5 Hz |
| 0.23 Meter | 1286.2- MHz | 100 Hz |

Club Net

WVARA's club net is on the W6PIY repeaters each Tuesday at 8:30 pm. All repeaters are linked together during the net. The net script can be found at www.wvara.org/net.html.

Visitors Are Welcome!

President's Letter

Ham radio is a very consuming hobby. Full stop. We all know this. Which of you owns only one radio? Which of you can eat just one Girl Scout cookie and put the rest of the box away? Not many, I'd guess. Certainly not me.

As Valentine's Day comes upon us this Wednesday, I sincerely hope that each of you has the support of your version of a valentine. Through many thousands of QSOs, the late nights programming an Arduino, the hundreds of hours of Morse code practice podcasts, the weekends away talking around the world, and the many, many dollars spent on niftier and niftier radios - someone supported you. Someone lit that fire in you initially. Be sure to take a moment to thank them and make sure they understand that their support is appreciated. It can easily be an odd hobby to support and not everyone will understand why you like it so much.

Then be sure to return that support in kind. Your valentines, family, and friends all have things they are interested in. Let's each dedicate some time to support what they like to do. Do they need help rebuilding an engine? Picking up 30 more skeins of yarn? Taking pictures of The Golden Gate Bridge? Support those interests just as you hope they will continue to support yours.



In some cases, you may even find that your love of radio is contagious. Don't push it too hard, or you may find it will backfire. However, in some situations, people are coming to you to learn something. In that case, let 'er rip! Field Day, CQP, your local Boy Scout looking to get the radio merit badge, the Maker Faire, and any number of other forums are all great opportunities. Find out how to get involved, put on a happy face, and go share your love of ham radio. Help people understand the technologies used, how they weren't all invented in 1894, the emergency preparedness aspects, and how it forms tightly coupled but loosely connected groups around the globe.

It's Valentine's Day. Give love. Share love. Get on the air.

73, Bobby K0XI

New Members
The following new members
joined WVARA recently:
John Miller, K6MM
Rafael Moreno, KG6DQL
Taymia Akber, KM6OKR
Welcome!!!

Meeting Topic

HF Digital Modes by Bill Fehring, W9KKN

It's time for our February WVARA meeting. Please join us this Wednesday (February 14th) at 7pm in Meeting Room 5 at the Silicon Valley Chapter of the American Red Cross, 2731 N. First Street at Plumeria Drive (southwest corner) in San Jose. Most of us come in through the side entrance on the southwest side of the building — look for our red WVARA sign on the side where they park all the Red Cross trucks. Cookies will be served, and of course, visitors are welcome!

If you haven't been to the Red Cross, "talk-in" is usually available on the Association's repeaters, normally 2m/220 are good choices.

A few of us usually meet for dinner a block down the street around 6 pm prior to the meeting, and anyone is welcome to join <https://www.yelp.com/biz/dish-n-dash-san-jose>.

For this Valentine's day meeting, I'm going to tell you why I love HF digital modes and cover some of the basics in getting started with RTTY, FT8, JT65 as well as some advanced topics. If you've traditionally stuck with CW or Voice modes, there are many DX and contest contacts you're missing out on! FT8 is even starting to show up in DXpeditions and there are some interesting changes around that planned for a future version of WSJT-X that you'll hear about here first. We won't be able to cover everything, but I hope to recruit you in our digital efforts at a future WVARA Field Day. Also, the RTTY edition of the North America QSO Party contest is Saturday, February 24th. Get on and make a few contacts!

Hope to see you there!
Bill Fehring, W9KKN

| WVARA Net Check-Ins (W6PIY) | | | | | | |
|------------------------------------|-------------|---------------|----------------|----------------|----------------|---------------|
| Tuesdays at 8:30 PM | | | | | | |
| Call Sign | Name | 1/9/18 | 1/16/18 | 1/23/18 | 1/30/18 | 2/6/18 |
| Total | | 18 | 15 | 14 | 13 | 15 |
| AE6JV | Bill | X | | | | |
| AF6AE | Bill | X | X | X | X | X |
| AG6YO | Kevin | X | X | X | X | X |
| AI6NT | Henry | | | X | X | |
| K0FRG | Bob | | | | | X |
| K6SCC | Brian | X | | | | |
| KE6MT | Rex | X | X | X | X | X |
| KF6EMB | Svend | X | X | X | | X |
| KI6SLX | Peri | X | | | | |
| KJ6WH | Brian | X | X | X | | X |
| KJ6ZZI | Michael | X | X | X | X | X |
| KK6VF | Kevin | X | NET | NET | NET | NET |
| KM6ABF | Scott | | X | | | |
| KM6DAC | Cameron | NET | | | | |
| KM6FDD | Lloyd | | | | X | |
| KM6PEA | Steve | X | | X | X | X |
| KM6PMS | Rich | | | X | | |
| N6FYR | Matt | X | X | X | X | X |
| N9CU | Andy | X | X | | | X |
| NU6P | John | | X | | X | X |
| W6ESL | Tom | X | X | X | | X |
| W6IA | Mark | X | X | X | X | |
| W6PK | Phil | X | X | | | |
| W9KKN | Bill | | | | X | X |
| WB6KHP | Dave | X | X | X | X | X |

Treasurer's Report **Submitted by WVARA Treasurer, Peri Frantz KI6SLX**

As promised in last month's Heterodyne, here are the revised Final Activity Report for 2017 and a performance comparison to budget along with the proposed 2018 budget. 2018 is off to a good start, although we are operating without a budget. The BOD met on Jan 17, and the proposed 2018 budget column in the Budget Report is their proposal for the year. We will be voting whether to accept this budget at the February Meeting.

January 2018 financials will be included with the February Reports next month. Income consisted of dues, mug sales & donations. Expenses were limited to mugs and a few outstanding Xmas party items.

Peri Frantz, KI6SLX
WVARA Treasurer
treasurer@wvara.org

Statement of Activity

Printed 01/12/18

January through December 2017

Q4

| | Q1 2017 | Q2 2017 | Q3 2017 | Oct & Nov 2017 | Dec 2017 Revised | Q4 2017 | 2017 TOTAL |
|--|-----------|---------|----------|----------------|------------------|----------|------------|
| Income | | | | | | | |
| 4100 — Program Income | | | | | | | |
| 4150 — Flea Market Receipts | 0.00 | 0.00 | 3,764.08 | | | 0.00 | 3,764.08 |
| 4110 — Membership Dues | | | | | | | |
| 4111 — Indiv. Assn. (\$15) | 375.00 | 135.00 | 15.00 | 195.00 | 75.00 | 270.00 | 795.00 |
| 4112 — Indiv. Repeater (12) | 192.00 | 108.00 | 12.00 | 96.00 | 48.00 | 144.00 | 456.00 |
| 4113 — Fam. Assn. (\$20) | 100.00 | 20.00 | 20.00 | 40.00 | 40.00 | 80.00 | 220.00 |
| 4114 — Fam. Repeater (\$18) | 72.00 | 18.00 | 18.00 | 36.00 | 36.00 | 72.00 | 180.00 |
| Total 4110 — Membership Dues | 739.00 | 281.00 | 65.00 | 367.00 | 199.00 | 566.00 | 1,651.00 |
| Total 4100 — Program Income | 739.00 | 281.00 | 3,829.08 | 367.00 | 199.00 | 566.00 | 5,415.08 |
| 4200 — Misc. Income | | | | | | | |
| 4210 — Mug Sales | 0.00 | 0.00 | 0.00 | 0.00 | 72.00 | 72.00 | 72.00 |
| 4220 — Bank Income Earned | 0.11 | 0.12 | 0.12 | 0.08 | 0.04 | 0.12 | 0.47 |
| 4290 — Other misc. Income | 10.00 | 30.00 | 0.00 | 0.00 | 0.00 | 0.00 | 40.00 |
| Total 4200 — Misc. Income | 10.11 | 30.12 | 0.12 | 0.08 | 72.04 | 72.12 | 112.47 |
| 4800 — Donations | 133.00 | 154.00 | 15.00 | 35.00 | 52.00 | 87.00 | 389.00 |
| Total Income | 882.11 | 465.12 | 3,844.20 | 402.08 | 323.04 | 725.12 | 5,916.55 |
| Expense | | | | | | | |
| 5300 — Flea Market Expenses | 2,400.00 | 0.00 | 239.08 | 0.00 | 0.00 | 0.00 | 2,639.08 |
| 5200 — Membership Expenses | | | | | | | |
| 5240 — Summer Picnic | 0.00 | 0.00 | 0.00 | 85.00 | 0.00 | 85.00 | 85.00 |
| 5230 — Holiday Party | 0.00 | 0.00 | 0.00 | 0.00 | 474.28 | 474.28 | 474.28 |
| 5210 — Badges | 40.00 | 96.00 | 0.00 | 0.00 | 0.00 | 0.00 | 136.00 |
| 5220 — Meeting Expenses | | | | | | | |
| Total 5200 — Membership Expenses | 40.00 | 96.00 | 0.00 | 85.00 | 474.28 | 559.28 | 695.28 |
| 5100 — Administrative Expenses | | | | | | | |
| 5110 — Finance Fees Paid | 21.16 | 3.56 | 2.92 | 9.02 | 7.17 | 16.19 | 43.83 |
| 5120 — Insurance | 0.00 | 0.00 | 0.00 | 355.00 | 0.00 | 355.00 | 355.00 |
| 5140 — Web Hosting Expense | 59.40 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 59.40 |
| 5150 — PO Box Rental | 0.00 | 0.00 | 76.00 | 0.00 | 0.00 | 0.00 | 76.00 |
| 5160 — Officer Awards | 0.00 | 0.00 | 0.00 | 0.00 | 32.73 | 32.73 | 32.73 |
| 5190 — Misc. Expense | 0.00 | 10.00 | 0.00 | 20.00 | 0.00 | 20.00 | 30.00 |
| Total 5100 — Administrative Expenses | 80.56 | 13.56 | 78.92 | 384.02 | 39.90 | 423.92 | 596.96 |
| 5500 — Program Expenses | | | | | | | |
| 5520 — Field Day Expenses | | | | | | | 0.00 |
| 5530 — CQP Expenses | | | | | | | 0.00 |
| Other Contests @ 25/per | | | | | | | |
| 5590 — Misc. Program Expenses | | | | | | | 0.00 |
| Total 5500 — Program Expenses | | | | | | | |
| 6000 — Repeater Expenses | | | | | | | |
| 6100 — Repeater Maintenance | 81.07 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 81.07 |
| 6200 — NARCC dues | 0.00 | 0.00 | 0.00 | 0.00 | 20.00 | 20.00 | 20.00 |
| Total 6000 — Repeater Expenses | 81.07 | 0.00 | 0.00 | 0.00 | 20.00 | 20.00 | 101.07 |
| Total Expense | 2,601.63 | 109.56 | 318.00 | 469.02 | 534.18 | 1,003.20 | 4,032.39 |
| Net Income | -1,719.52 | 355.56 | 3,526.20 | -66.94 | -211.14 | -278.08 | 1,884.16 |
| Results from Specific Activities | | | | | | | |
| | Actual | | | | | | |
| Flea Market | | | | | | | |
| Income | 3,764.08 | | | | | | |
| Expenses | 2,639.08 | | | | | | |
| Net Gain | 1,125.00 | | | | | | |
| Repeater | | | | | | | |
| Dues – Individual | 456.00 | | | | | | |
| Dues – Family | 180.00 | | | | | | |
| Total Repeater Dues Income | 636.00 | | | | | | |
| Repeater Expenses | 101.07 | | | | | | |
| Net Repeater Gain | 534.93 | | | | | | |
| Mugs will be accounted for in a special 2017-2018 Report | | | | | | | |

| | | | | | | | | |
|--|--|--|--------------------------------------|---------------|----------------|--------------------------|----------------------------|---|
| WVARA – 2017 Budget Performance with 2018 budget proposal | | | | | | | | |
| WVARA Budget 2018 | | | | | | | | |
| | | | | printed | 01/12/18 | | | |
| January through December 2017 | | | | | | | | |
| | | | | 2017 TOTAL | 2017 Budget | Comparison to Budget* | Proposed 2018 Budget | notes |
| Income | | | | | | | | |
| 4100 — Program Income | | | | | | | | |
| | | | 4150 — Flea Market Receipts | 3,764.08 | 3,500.00 | 264.08 | 3,500.00 | |
| | | | 4110 — Membership Dues | | | | | |
| | | | 4111 — Individ. Assn. (\$15) | 795.00 | | | | |
| | | | 4112 — Individ. Repeater (12) | 456.00 | | | | |
| | | | 4113 — Fam. Assn. (\$20) | 220.00 | | | | |
| | | | 4114 — Fam. Repeater (\$18) | 180.00 | | | | |
| | | | Total 4110 — Membership Dues | 1,651.00 | 850.00 | 801.00 | 1,400.00 | |
| | | | Total 4100 — Program Income | 5,415.08 | 4,350.00 | 1,065.08 | 4900 | |
| 4200 — Misc. Income | | | | | | | | |
| | | | 4210 — Mug Sales | 72.00 | | | | |
| | | | 4220 — Bank Income Earned | 0.47 | | | | Interst on savings account |
| | | | 4290 — Other misc. Income | 40.00 | | | | Badge sales |
| | | | Total 4200 — Misc. Income | 112.47 | | | | |
| | | | 4800 — Donations | 389.00 | 500.00 | -111.00 | 400.00 | |
| | | | Total Income | 5,916.55 | 4,850.00 | 1,066.55 | 5,300.00 | |
| Expense | | | | | | | | |
| | | | 5300 — Flea Market Expenses | 2,639.08 | 2,400.00 | -239.08 | 2,650.00 | Additional \$250 for Concession stand expenses, not budgeted previously |
| | | | 5200 — Membership Expenses | | | | | |
| | | | 5240 — Summer Picnic | 85.00 | 90.00 | 5.00 | 90.00 | |
| | | | 5230 — Holiday Party | 474.28 | 500.00 | 25.72 | 500.00 | |
| | | | 5210 — Badges | 136.00 | 100.00 | -36.00 | 125.00 | |
| | | | 5220 — Meeting Expenses | | 25.00 | 25.00 | 25.00 | |
| | | | Total 5200 — Membership Expenses | 695.28 | 715.00 | | 740.00 | |
| | | | 5100 — Administrative Expenses | | | | | |
| | | | 5110 — Finance Fees Paid | 43.83 | 50.00 | 6.17 | 50.00 | Mostly PayPal Fees |
| | | | 5120 — Insurance | 355.00 | 322.00 | -33.00 | 360.00 | |
| | | | 5140 — Web Hosting Expense | 59.40 | 100.00 | 40.60 | 100.00 | |
| | | | 5150 — PO Box Rental | 76.00 | 70.00 | -6.00 | 70.00 | |
| | | | 5160 — Officer Awards | 32.73 | 30.00 | -2.73 | 40.00 | |
| | | | 5190 — Misc. Expense | 30.00 | 25.00 | -5.00 | 35.00 | |
| | | | Total 5100 — Administrative Expenses | 596.96 | 597.00 | 0.04 | 655.00 | |
| | | | 5500 — Program Expenses | | | | | |
| | | | 5520 — Field Day Expenses | 0.00 | 500.00 | 500.00 | 500.00 | Port-a-potty not reimbursed in 2017 |
| | | | 5530 — CQP Expenses | 0.00 | 25.00 | 25.00 | 25.00 | |
| | | | Other Contests @ 25/per | | | | 100.00 | |
| | | | 5590 — Misc. Program Expenses | 0.00 | 200.00 | 200.00 | 200.00 | |
| | | | Total 5500 — Program Expenses | | 725.00 | | 825.00 | |
| | | | 6000 — Repeater Expenses | | | | | |
| | | | 6100 — Repeater Maintenance | 81.07 | 350.00 | 268.93 | 350.00 | |
| | | | 6200 — NARCC dues | 20.00 | 20.00 | 0.00 | 20.00 | |
| | | | Total 6000 — Repeater Expenses | 101.07 | 370.00 | 268.93 | 370.00 | |
| | | | Total Expense | 4,032.39 | 4,807.00 | 774.61 | 5,240.00 | |
| | | | Net Income | 1,884.16 | 43.00 | 1,036.66 | 60.00 | |
| * Comparison to budget: Positive number – We did better than budgeted, negative, we did worse. | | | | | | | | |
| Budgeted Results from Specific Activities | | | | | | | | |
| | | | Flea Market | | | | | |
| | | | Income | 3,500.00 | 3,500.00 | | | |
| | | | Expenses | 2,400.00 | 2,650.00 | | | |
| | | | Net Gain | 1,100.00 | 850.00 | | | |

2018 West Valley Amateur Radio Association Board

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Vice President: Bill Fehring, W9KKN

Secretary: Jon Kelley, K6WV

Treasurer: Peri Frantz, KI6SLX

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The Heterodyne is published monthly by the West Valley Amateur Radio Association and sent to all club members via the web. Please obtain permission from the author to re-publish any article in this publication.

Club Web Page: <http://www.wvara.org>

Heterodyne Editor: Phil Verinsky, W6PK

Internet Postmaster: Phil Verinsky, W6PK

Meeting Refreshments: Kevin Smith, KK6VF

Repeater Trustee: Chuck Kamas, AD6CL

Webmaster: Larry Goodwin, KG6ENF

Speaker Committee:

John Glass, NU6P

Scott Emery, AD6RY

Jim Peterson, K6EI

Jon Kelley, K6WV

Phil Verinsky, W6PK

DX Special Interest Group:

Dennis Lyden, AG6HE

Club address:

West Valley Amateur Radio Assn

P.O. Box 6544

San Jose, CA 95150-6544